

Copyright (c) 1993 - 2003 Compugen Ltd.

Om nucleic - nucleic search, using sw model

Run on: April 15, 2003, 00:17:43 ; Search time 64.4462 Seconds

Sequence: 1994.114 Million cell updates/sec

Title: US-09-001-737-7

Perfect score: 1661

Sequence: 1 GAAATTCGGCTCATATGCGA.....TGGCGSGATAAGCCGAATTC 1661

Scoring table: IDNITY NUC

GPop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/pctdata/1/in4/5A_COMB.seq:
2: /cgn2_6/pctdata/1/in4/5B_COMB.seq:
3: /cgn2_6/pctdata/1/in4/5A_COMB.seq:
4: /cgn2_6/pctdata/1/in4/5B_COMB.seq:
5: /cgn2_6/pctdata/1/in4/PCUTS_COMB.seq:
6: /cgn2_6/pctdata/1/in4/backfiles1.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

Result No.	Score	Query	Match	Length	DB ID	Description
1	1035.4	62.3	5365	4	US-08-961-527-77	Sequence 77, Appl
2	735.6	44.3	1623	4	US-09-134-00C-1868	Sequence 1868, App
3	589.8	35.5	1647	4	US-09-472-971-5	Sequence 5, Appl
4	589.8	35.5	4524	4	US-09-472-971-7	Sequence 7, Appl
5	544.4	32.8	2416	4	US-09-221-017B-895	Sequence 85, App
6	528.6	31.8	1838	3	US-08-470-260-7	Sequence 7, Appl
7	528.6	31.8	1838	3	US-08-471-491-7	Sequence 7, Appl
8	528.6	31.8	1838	3	US-08-466-662-7	Sequence 7, Appl
9	528.6	31.8	1838	4	US-08-256-841C-6	Sequence 6, Appl
10	496.6	29.9	2284	4	US-08-467-822-28	Sequence 28, Appl
11	496.6	29.9	2284	4	US-08-431-697-28	Sequence 28, Appl
12	496.6	29.9	2284	4	US-08-466-248-28	Sequence 26, Appl
13	458.6	27.6	4380	4	US-08-955-563A-3	Sequence 3, Appl
14	458.6	27.6	4403765	4	US-09-103-840A-2	Sequence 2, Appl
15	446.8	26.9	1626	2	US-09-997-080-159	Sequence 1, Appl
16	446.8	26.9	1626	2	US-09-997-362-113	Sequence 159, Appl
17	446.8	26.9	1626	2	US-09-997-362-159	Sequence 159, Appl
18	446.8	26.9	1626	4	US-09-995-855-159	Sequence 159, Appl
19	446.8	26.9	1626	4	US-09-320-542-159	Sequence 159, Appl
20	446.8	26.9	1626	4	US-09-205-420-159	Sequence 159, Appl
21	444.8	26.8	1569	2	US-09-997-080-113	Sequence 113, Appl
22	444.8	26.8	1569	2	US-09-997-362-113	Sequence 113, Appl
23	444.8	26.8	1569	4	US-09-995-855-113	Sequence 113, Appl
24	444.8	26.8	1569	4	US-09-320-542-113	Sequence 113, Appl
25	444.8	26.8	1569	4	US-09-205-420-113	Sequence 10, Appl
26	416.6	25.1	1620	2	US-08-461-775-10	Sequence 10, Appl
27	416.6	25.1	1620	3	US-09-031-606-10	Sequence 10, Appl

RESULT 1
US-08-961-527-77
Sequence 77, Application US/08961527
Patient No. 6420135
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
NUMBER OF SEQUENCES: 391
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII TEXT
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,527
FILING DATE:
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: BROOKES, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB340P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 77:
SEQUENCE CHARACTERISTICS:
LENGTH: 5365 base Pairs
TYPE: nucleic acid
STRANDEDNESS: Double
TOPOLOGY: linear
US-08-961-527-77

Query Match 62.3%; Score 1035.4; DB 4; Length 5365;
Best Local Similarity 77.4%; Pred. No. 2.36; 255; Matches 1255; Conservative 0; Mismatches 366; Indels 0; gaps 0;
Ov 14 TATGCCAAAGAAATCAATTTCAGCAGANGGCCGCTCCAGGCCGGAGTGA 73
Db 277 TATGCCAAAGAAATCAATTTCAGCAGANGGCCGCTCCAGGCCGGAGTGA 336

OY 194 ATTAGAAGATCATTTGAAACATGGGCAATTGGCTCTGAACTGGGCTTCRAAC 253
 Db 183 GTTAACTATTCATGAAATGGGTGAAATTTGGTGCAGGAAAGTGGAATTAAC 242
 OY 254 CAATGATATGCTGGTGGAGGACTGAACTGAACTGGCTTGTGACACAGCATTGCA 313
 Db 243 AAATGAACTCGTGGGAGCTAACATCACGAACTTGTGACAACTGAAATGATCA 302
 OY 314 TGAAGGACTAAATAATGTCACAGCAGGTAAATCCATTTGTTACCGTACGATGA 373
 Db 303 GGAAGGTCTTAAGAATGGTACAGGGTGTGAAATCCCTGTTAGGCTTAAGACAGGATATGA 362
 OY 374 AACAGCACAGCAACAGCTGGTCAAGGCTGAACTGTCACAGCTTGTGACAACTGAA 433
 Db 363 CAAAGCAGTCGAGGTGCTATAGAAGCTGCTTGTGATTTGCAAAAGGTTGAAATA 422
 OY 434 GGAAGCTTATGTCAGGCGTGGCAGCTACATCACGCTCAGAAGAACTTGAGATR 493
 Db 423 GAAGGAGTAGGGCAGTGTGAGCTATTCGAGCAGTGAAGAAATGGTACGATG 482
 OY 494 CTCAGAGCTAAGGGCGTGGCACERATGGTGTATPACATCGAGATTCGGG 553
 Db 483 TTCTGAGGAGTGGTAAGTAGTGTACGATGGCGTATACCTTGAGATTAATGG 542
 OY 554 TATGCAACAGACTGAGTGTGAAAGCCTGAAATTGACGGTGTACCGTCRCA 613
 Db 543 GTTAACTACAGAAATGGTGTGAGCTGAAAGCCTGAACTTGTGAGCTTCATCC 602
 OY 614 ATACATGGTACAGCAGCAATGAAATGGTGTGAGCTTGTGAGCTTATCTTA 673
 Db 603 ATATATGGTAATGACTGACTCAGATAAATGTTAGTGTGATTAATGTTATG 662
 OY 674 CACCGTAAAGAAGTGTCAACATCCAGACATTGTTGAGACCTTGAGGAGCTCTAA 733
 Db 663 AACGGATAGAAATTTCATTCATTCAGTAACTCCTTGTGAGCTATGAGCTGCA 722
 OY 734 AACCRACCGTCATPACTCATATGCAATGAGTGTGAGGGTGAGCCTCCACCT 793
 Db 723 GGCTPTGACGCAATTTRATGTCGGTAGHAGTAGAGGCTGACTTAAT 782
 OY 794 TGTCTGACAGAGTGTGAGCTATGCTGTTGAGCTGTTGAGGCTGAGATGG 853
 Db 783 TGTGTTAAACGTTGCGGAGCATTTACTGTGAGCTTAAGGCCAGATTGG 842
 OY 854 TGATCGTGTGAAAGTATCCTGAGACATTTGCTGACGGTGTACAGGATAC 913
 Db 843 TGATCGTGTGAAAGTACGTTGAGACTGAACTGCAATTACTGTCTCACTTC 902
 OY 914 AGAGGACTCTGACTGTAAAGATGCAACTAATTTGTTGAGGTCTGAGGTCTAA 973
 Db 903 TGATGATTTGTTGAGCTTAAGATGCTGAACTGAGCTGAACTGAACTGAA 962
 OY 974 GATPACAGTGTAAAGATGCAACTAATTTGTTGAGGTCTGAGGTCTGAGGTCTAA 1033
 Db 963 AGTGTGACTGACTAAAGATGCTACACAGCTGAGCTGTTGAGTGTAAATAT 1022
 OY 1034 TGCTPACCGTATGCACTGATTAATGCAAAUTGAAACACACTCTGACTTGACG 1093
 Db 1023 TGATCCTGTGTTGAGTCATTTGAGCAGTAACTGTGAAACTGTTGAGTGT 1082
 OY 1094 TGAACAACTACAGAACCTTGTGCAAAUTGAACTGTTGAGTGTAACTGAGTGG 1153
 Db 1083 AGAAAATATGGAAGCTTGGAAACTACTTGGGGGTTGCTGTGAGGACTTACGGT 1152
 OY 1154 AGCTCCAACAGAGACAGCTTAAAGAACTGAACTGGCATTCAGGATGCTCAATGC 1213
 Db 1143 GGGGGCAGTCGAGCTAACAGCTTAAGAAGCTTGTGAACTGAGCTTAACT 1202
 OY 1214 TACAGCGACCGGTGTGAGGAGGTCTGTTGCTGGGGGAGGACTTACGGT 1273
 Db 1203 AACAGTGGGGGAGAAGGTATCGTGTGAGGACTTGTGTTAGTCATAT 1262

OY 1274 TATTGAAAGTAGCAGCTCTGAGGCGATGATGCTACTGGGAGCTAC 1274
 Db 1263 ATATCAAAGTAGTGTGAAATTAAGCAGAAAGGTGATGTTGAAACGGGGTTAATI 1263
 OY 1334 GCTTCGCGCTCTGAGACAGCTGACGCTGAACTGCTTAATGGTGTGAGGAG 1334
 Db 1323 ATTAAGAACCTTACACGACCTGTTGACAAATGCTTAATGGGTTAGGGTC 1382
 OY 1394 CGTGTATGACAGTGTGAAACAGCCCTGAGGACAGGATTAATGCTGCACAG 1453
 Db 1383 AATTTGTTGAACTGCTTAACATGCTGAGGCTTGGCTTGGTTCAAGCACA 1442
 OY 1454 TGTTGGGTGAGTTAAACAGGATATGACCTGTCAAGTACAGATCAGC 1513
 Db 1443 TGATGGTGTATGTTAGAGGAGGTATGATGATCACAATGACTGTCAGC 1502
 OY 1514 GCTCTAAATGCGCTCTGAGTAGCTTATTGACGAGGAGCTGAGCAGC 1573
 Db 1503 GTTACACATGACAGTGTAGCCTGTTGATGTTCTAACTGAAGCAGTCAG 1562
 OY 1574 TAATCTGACCGAG 1587
 Db 1563 TATTCGAGGCCAG 1576

RESULT 3
 US-09-472-971-5
 ; Sequence 5, Application US/09472971
 ; Patent No. 619547
 ; GENERAL INFORMATION:
 ; APPLICANT: YANAGI, Hideki
 ; APPLICANT: IUR, Takeshi
 ; TITLE OF INVENTION: TRIGGER FACTOR EXPRESSION PLASMIDS
 ; FILE REFERENCE: 1422-403P
 ; CURRENT APPLICATION NUMBER: US/09472-971
 ; CURRENT FILING DATE: 1999-12-28
 ; EARLIER APPLICATION NUMBER: JP0-372955
 ; EARLIER FILING DATE: 1998-12-28
 ; NUMBER OF SEQ ID NOS: 7
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO: 5
 ; LENGTH: 1647
 ; TYPE: DNA
 ; ORGANISM: Escherichia coli
 ; US-09-472-971-5

Query Match 35.5%; Score 589.8; DB: 4; Length 1647;
 Best Local Similarity 61.3%; Pred. No. 3.8e-164; Mismatches 617; Indels 6; Gaps 2;

Matches 986; Conservative 0; Mismatches 617; Indels 6; Gaps 2;

OY 18 GCAAGAACTCAATTTCTGAGAGTCGGGGCTGCGATGTTGGGACTGTG 77
 Db 7 GCTAAAGCTAACTTGTGAAAGGAGCTGCTGTTGAAATGCTGGCGCTAAAGCTA 66
 OY 78 TTACAGATCCCTAAAGTACCTCTGTTGCTTAAGGGCAATGTTGTTGTGAA 137
 Db .67 CTGGCAGTCAGTGTGAGTTACCTCTGTTGCTTAAGGGCAATGTTGTTGTGAA 126
 OY 198 GAAGTCATTTGAAACATGGGCAAAATGGTGTGAGTGTCTGCTTCAAAC 126
 Db 138 GCTTGTGTTCTCCCTTAATCTAATGACGGGAACATGCTGAAAGAGTGTG 197
 Db 127 TCCTGGGAGCAGCAGTACCCAGAAGATGGTGTCTGTTGCTGCGTGTGAA 186
 OY 199 GAAATCAGTTGAAACATGGGCAAAATGGTGTGAGTGTCTGCTTCAAAC 199
 Db 187 GAAGACAGTGTGAGCTAACATGGTGTGAGTGTCTGCTTCAAAC 187
 OY 258 GATATGCTGTGAGGAGCTACTGCAACAGCTTGTGACAAAGCTGTG 258
 Db 247 GACGCTCAGGCGAGGTTACCCACACTGCAACCGTACTGGCTCAGGCTA 247

OY 318 GGACTAAAMATGAGCAGAGGCTACATCCAACTGCTTGTGTTGCTTC 318

Db 1949 GACCTGCCAAAACGATGCCAGTCACTAGGCCTCCTGGCGGTAG 1997
 Db 869 GCTGAAGGCGATGCAAAAGTGTTAAGGAGGCGTATCACCGTGAGCGGTACCGT 928
 Qy 555 ATGGAACAGAACGACTTGAAAGTGTTGAGGCGCATTTGACCGGTGTTACCGTCCAA 614
 Db 929 CTGCAAGGACAAACGGGCGTGGAGGTAGCAGTCGACCGGGCGTACCGTCCT 988
 Qy 615 TACATGGTACAGACAACTGAAATAATGGTGCAGCTTGAAACCAATTATCTTAATC 674
 Db 989 TACTTCATCACACAAGCGGGAACTGGCGCAATAGACTGGAAAGGCCGTCATCCPCTG 1048
 Qy 675 ACCGATTAAGAAACTGTCACATCAGACATTGGCAACTTGAGGAGTCCTAA 734
 Db 1049 GCTGACAGAAGAAATCTCCACATCGCGAAATGCGCTTGAGCTGGCAAA 1108
 Qy 735 ACCAACCGCGCAATGACTCATGATGAGATATGGGAGACTTCCAACCTT 734
 Db 1109 GCAGGCAACCGCTGCTGATCCTGAAAGTAGAGGGAGAUCGGGACACGCT 1168
 Qy 795 GCTGTGACAGAAGTCCCTGFACTTCATGTTGTTGCTGAAAGGCCAGATGGT 854
 Db 1169 GTGTTGAAACCATCTCTGCGATGTTGAAATCGCTGGTTRAKCGAACCGGGCTGGC 1228
 Qy 855 GATCGTCGTTAAAGCTATGCTGAGACATTCATCTGACGGGTTGTCAGATA 914
 Db 1229 GATCGTCGTTAAAGCTATGCTGAGATTCACACCCGACGGGTTGACCGTCT 1288
 Qy 915 GAGGATCTGGACTTGATTAAGATGCTCAATGACGCGCTTGAGACGGTGGCTAG 974
 Db 1289 GAGAGATCTGGATGGAGCTGCGAAAGAACCAACCTGGAGACACTGGGCAACG 1348
 Qy 975 ATTACAGTGATAAAGTAGACAGTAACTGCTGAGATTCACACCCGACGGTGGCTAG 1034
 Db 1349 GTGTTGATCACAGAACGACACCACTATCATCGATGGCGTGGAGAACGTC 1408
 Qy 1035 GETRACCGGTTGACTGATGAACTGAACTGAACTGAACTGAACTGACTTGACCTG 1094
 Db 1409 CAGGGCGCTGCTCTGCTGAGCCAGATGAGCTCGCATTTGAGGATCTGAC 1468
 Qy 1095 GAAAACATCAAGAACCTTGGCAAAATCTCTGTTGCTGTTCAAGAAG 1154
 Db 1469 GAAAACATCAAGAACGCGCAACTGCGCGCTGAGTTCATCAAGGTT 1528
 Qy 1155 GETCCACAGAGACAGCTTAAAGAATGAACTCGCATTTGAGGATCTGAC 1214
 Db 1529 GCTGCGTACCGGACTGTGAAAGAAGAACACCGGTTGAGATGCCCTGACGG 1588
 Qy 1215 ACACGTCGCGCTGTGAGGAGGTTGCTGCTGTTGGATGACGACTTATAGGT 1274
 Db 1589 ACCCGNGCTGGTAGAGAGAGGGCTGTTGGTGTGCGCTGTCCCGTA 1648
 Qy 1225 ATTGAAAGATGAGCACSTCTGAGCTTGAGGCGCATGTTGAGCTGAACTA--- 1331
 Db 1649 GGTCTRACTGCTGCTGCGTCAAGCAGACAGCGAACGAGCTTATCAGAT 1708
 Qy 1332 GNGCTTGCGCTGTAGAGGCGCTGCTGCTGCTGTTAAATGCGGGTACAGAGG 1391
 Db 1719 GCACTGCGCATGAACTGAGCTGCTGCGTCAAGGGGGACGCGCAACTGGGTTACACCCGAC 1768
 Qy 1392 TCGGPAAGTATGACAGATGAAAGAACGCGCTCGAGGATTAATCTCAACA 1451
 Db 1719 TCTGTTGCTGCTRACTGCGTAAAGGGGGACGCGCAACTGGGTTACACCCGAC 1828
 Qy 1452 GTCGAGTGGTATGATGATTAACGGAACTTGACCGCTGTCAGAAGTACAGATCA 1511
 Db 1829 GAGAGATAGGCACTAGATGAGCATGGTCTGGTCAACCAAGTAATCTG 1888
 Qy 1512 GGCCTCAAAATGCGACTCTGAGCGAGCTTATTTGACACGAGCTGTTGCT 1571
 Db 1819 GCTCTCAGTACCGCAGCTGCTGCGCTGCGCTGAGTACACCCGAC 1948
 Qy 1572 AATAAACCTGAAACCCTAGGCCAGGCCAGCAATGCCAGAGGTATG 1620

Db 1949 GACCTGCCAAAACGATGCCAGTCACTAGGCCTCCTGGCGGTAG 1997
 RESULT 5
 US-09-221-017B-895-C
 Sequence 895, Application US/09221017B
 Patent No. 6,441,999
 GENERAL INFORMATION:
 APPLICANT: ROSS, Bruce C.
 TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
 NUMBER OF SEQUENCES: 1120
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: MORRISON & FORESTER
 STREET: 755 PAGE MILL ROAD
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94304-1018
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows
 SOFTWARE: FACTSE for Windows Version 2.0b
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/221,017B
 FILING DATE: 23-DEC-1998
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 PRIORITY NUMBER: PPI182
 FILING DATE: 31-JUL-1997
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PPI1546
 FILING DATE: 30-JAN-1998
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PP2911
 FILING DATE: 09-APR-1998
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/AU98/01023
 FILING DATE: 10-DEC-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Monroy, Gladys H
 REGISTRATION NUMBER: 32,430
 REFERENCE/DOCKET NUMBER: 27340-20021.00
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-813-5600
 TELEFAX: 650-494-0792
 TELEX: 706141
 INFORMATION FOR SEQ ID NO: 895:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2416 base pairs
 REFERENCE/DOCKET NUMBER: 27340-20021.00
 STRANDEDNESS: double
 TOPOLOGY: circular
 MOLECULE TYPE: DNA (genomic)
 HYPOTHETICAL: NO
 ANTI-SENSE: UNKNOWN
 ORIGINAL SOURCE:
 ORGANISM: PORPHYROMONAS GINGIVALIS
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1..2416
 US-09-221-017B-895
 Query Match: 32.8%; Score: 544.4; DB: 4; Length: 2416;
 Best Local Similarity: 59.5%; Pred. No. 1,2e-150;
 Matches: 961; Conservative: 0; Mismatches: 646; Deletions: 9; Gaps: 2;
 Qy 14 TATGCCAAAGAAATCAATTTCAGCATGGCGTGTGCCATGGCGAGTGA 73
 Db 1929 TATGCCAAAGAAATCAATTTCAGCATGGCGTGTGCCATGGCGAGTGA 1870
 Qy 74 TATTTAGCAGTACCGCGTCAAGTACAGCTGGCTCTGGCTTCTGAGAAGGGCGTGA 13

Db 1869 TGCACITGCGCAATGCCGTTAACCTTACCCCGGAAAGSCTGTAATGTTATCCTAG 1810
 Qy 134 AAAGCTTGTGCTCCCTTAATCTAATGAGGGTAACCATTCGTAAGAGATCCA 193
 Db 1809 CTAAGAGTAGGGCTCCGACATTAACCAAGGAGCTGAGGAGATAGA 1750
 Qy 194 ATTAGAGATCATTTGAACATCTGGGCAATTGGTGTGAAGTGTCTRAAAC 253
 Db 1749 ATGGAGTGCCGCTCAGACAGATGGGCTGAGCTTGGTGTAGAGATGAGA 1690
 Qy 254 CTAATGATATGCTGTGATGGAGACTACTGCAACAGTTGACACAGCTGTC 313
 Db 1689 CTAATGAGATGCGGTGAGCTGACTACCGCTACGATCTCGCCAGAGATTCG 1630
 Qy 314 TGAGGACTAAATAATGAGAGGGCTACCAATTGGTGTGAACCTGTC 373
 Db 1629 CGGGCTGAGACATGAGCTTGGCGAGGCAACGCAACGGCTTGGTGA 1570
 Qy 374 ACAGAACACGACACCTGTGAGCTGAGCTGAGCTGAGCTGAGCTGCA 433
 Db 1569 CTAAGGGCTGAAAGCTGTGAACTCACATGAGCTGAGCTGAGCTGAGA 1510
 Qy 434 GGAGGTTATGCTCAGTCGCTGAGATCATCGCCTGAGCTGAGCTGAGCTG 487
 Db 1509 CTTCAGAAGATGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTG 1450
 Qy 488 GATATCTCGAGCTGTGAGCTGTGGCCAGAGGTTGAGCTGAGCTGAGCTG 547
 Db 1449 CTCATGCGAACCATGCCAACGGTAAAGAACGAAAGAACGAAAGAAC 1390
 Qy 548 TCGAGGTTATGAGACAACTGTGAGTGTGAGCTGAGCTGAGCTGAGCTG 607
 Db 1389 CAAAGGAAACGAACTACAGCTGGTAGAGCTGGTGAAGCTGAGCTGAGCTG 1330
 Qy 608 GTCATCATATGATGTCAGACATGAAATACTGGTGCAGCTGAAACCAATTG 667
 Db 1329 CTCTCCCTACTTGTAAGCAGACGGTAGATGGAGCTGAGCTGAGCTG 1270
 Qy 668 CTTATCAGGATAAAAGTGTCAACATCCAGACATTGCACTACTGTGAGCTG 727
 Db 1269 CTCATCTACGAAAGAAATTCGTCCTAAAGAGATGCTCCGATCAC 1210
 Qy 728 TCTAAACCAACCGTCATTACTCATTTGAGATGATGGATGTGAGACTCC 787
 Db 1209 GSTTCAGACGGGAAGCCCCCTCCATCATGAGACATCGACAGAACCTGC 1150
 Qy 788 AACCTTGCTTAACTACAGATGGTGTGACTCTTAACTGTGTTGTC 847
 Db 1149 CCTCTGGTGTAAACGTCGCGCCAGCTCAAGTCGAGCTCC 1090
 Qy 848 ATTTGGATGCTGTAAGCTATGCTGAGACATGCTACTGAGGGTACTG 907
 Db 1089 ATTCGCGCTGCGCAGACTGCTGAGACATGCTATCCGAGGGGAACGGT 1030
 Qy 908 GATTAAGAGAGACTAGCTGATTAAGATGCTACATGACAGCCTGGACGC 967
 Db 1029 TATCAGCGGAGAGACGGCTGAGCTGAAATGCTACGATGATGATGCTG 970
 Qy 968 TCTCTAGATACAGCTGATTAAGTAGCTGAGCTGTTGAGGTAGGGTCA 1027
 Db 969 TTAGAAAGTAACTGCTGAGCTACTATGCTACGAGCTGAAAGAAC 910
 Qy 1028 ACTATGCTAACGGTACTGCACTGATAATCCATTGAGACACACTGCTG 1087
 Db 909 AGCATGCTCAGTACGCGATCACAGCTGAGTACGAGCTACGCCAGCTA 850
 Qy 1088 TAACTCTGAAACACTGAGAGCTGTTGAGGAATCTGCTGAGCTGATCA 1147
 Db 849 CGACCCGAAACACTGCAAGAGCTTAAAGAAATGAAATGAAATGAAATGAA 790
 Qy 1148 ATGGAGCTCCAGACGACGCTTAAAGAAATGAAATGAAATGAAATGAA 1207
 Db 789 CGGGGTTGCGGAGCTGAGCTGGAAAGAAGAGATGGCPAGAGATGCC 730

Qy 1208 AAATGCTCACAGTGGAGCGCTGAGAAGGATGCTGCTGCTGAGACAGAC 610
 Db 729 GAGTGACAGGGCTGCTGAGCTGAGGGTACAGTGGGGTACCGGGGGTACGSCATA 1384
 Qy 1268 TACGTTATGAAAGAGCCGCTCTGCTGCTGAGGGATGACTACTGGACG 550
 Db 669 TCGTCCCCTAGCTGCTTGGAGGGTCTGAGGAGCTGAGCTACAGGAT 1444
 Qy 1328 C---ATTGTTGTTGCTCTAGAGAGSCTGTTACCTCAATGCTGTTAATGCTG 490
 Db 609 CGAGTCGAAACGGCCATCGAGGAGGGCCTTCGTCAGATGCTGAGCAGCCGGTAA 430
 Qy 1445 TGCACAGTGTGGGGTATGATGATTAAACAGGRATGATGACCTGTC 1504
 Db 489 CGGTACGAGTTTGTGAAACCTCTACACTACCGTGTATGACCCGGCCAGA 314
 Qy 1505 AGATCAGCGTCAAATGAGCTGCTGAGCTGCTTGTGACACAGGAGT 1564
 Db 429 ACGTGTACATGAAAGTGCAGCTATCGCAGCTATCTGACTACGGAGT 370
 Qy 155 TGTGCTPATACCTGACCTGGCAGCTGACCCGGCCAGCTACCCGGAGT 1620
 Db 369 TATGCTGACGAGAGAGATAATCTGCCGACCGGCTACGCCGAGGTTG 314

RESULT 6
 US-09-001-7337-7
 ; Sequence 7, Application US/08470260
 ; Patent No. 6077706
 GENERAL INFORMATION:
 APPLICANT: Covacci, Antonello
 ADDRESS: Via S. Stefano 10
 CITY: Genova
 STATE: Italy
 ZIP: 16132
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/470,260
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/256,848
 FILING DATE: 21-OCT-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: McCleung, Barbara G.
 REGISTRATION NUMBER: 33,113
 REFERENCE/DOCKET NUMBER: 0316.001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (510) 601-2708
 TELEFAX: (510) 655-3542
 INFORMATION FOR SEQ ID NO: 7:
 LENGTH: 1838 base pairs
 TYPE: nucleic acid

Best Local Similarity 58.9%; Pred No. 4.7e-46; Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;						Db	1076 ATGTTAAGCAGAGTCGGCGATCAACCAAATGCAAGTACGAAACGATTAG 1135	
QY 13 ATATGCCAACAGAACATCAAAATTCTCGCAGATGCCGCTGTCATGCGGAGCTTG 72	QY	1030 ACGTGAAACTACAGACGTTGCGGAATTAGTGCGGTTACTGTATCAAG 1149	Db	1136 ACAAGAAAATTCAGAAAGATGCTTAACCTCTGGGGTGTGCTTGATAANG 1195	QY	1150 TAGGCTCAACAGAGACGTTAACAGAACATCTGCATTTGGCTCA 1209	Db	1196 TGGGGCTCGAGTGAAATGAAAGAGAAAAGACGGGTGATGCGGTGA 1255
Db 56 AAATGGCRAAACGAAATCAATTTCAGATGACTGCGGAAACCTTATTGAGCCGTA 115	QY	1173 ATATGTTAGCAGAACCTGCAAGAACCTGGCTTAAGGCGCAAGTGTGTTG 132	Db	1210 ATGCTACAGTCAGCGGTGAGGAGTTCTGTGTGGTGGANACAGCTTAA 1269	QY	133 AAAAGTTGCTCCTTAATCATATGAGGGTAACTATGCTAAGAGTCG 192	Db	1255 GCGGACTAAAGGGCGTTGAAGAAGGGCATGTTGATGGGGCGGGCTCTCATC 1315
Db 116 GGCACTTCAGAGCTGCTCAAGTACCATGGGCAAGAGCAGGAGATGTTG 175	QY	176 AAAGAGCTATGGGCTCAACGACGACGGCTGAGAGTAAAGAGTC 235	Db	1270 CGGTPATGAAAGCTTGGAGCTTGGAGCTTGGGGGAGATCTGGACCTAC 1329	QY	193 ATTAGAGATCATTTGGAAACATGGGCAAAATTGGGCTGTGAGTGGCTPAAA 252	Db	1316 GGGCGCTCAARAGT--GCATTGTGATTTCAGATGATGAAAGTGGCTATGAAA 1372
Db 236 ATTRAGTGGCCACTAGCTAACATGGGGCTCAACTCGTAAAGAGTAGCGAGAAA 295	QY	253 CCRATGATATGCTGTTGATGGAGACTACTGCAACATTTGAGACAGGCCATTGTC 312	Db	1373 TCATATGGCCCTTAAGCCCATTCATCTCAATGCTACATCACCGTTAGT 1432	QY	313 ATGAGGACTAAATAAATGAGCAGAGGCTAATTCAMNTGCTATGCTGGTCAAG 372	Db	1390 GCTCCGTTCTTGTCTCTAGAGACCTGTTAGCTCAATGCTTAATGCTGGTCAAG 1389
Db 356 AGGAGTTTGGAGGAAATACGCTGGGGCTGAGGCTAACATTGAGTAAAGGGCTG 415	QY	373 AACAGGACACGACACGGCTGAGGCTTACACCCCTGCTACCCCTGCA 432	Db	1413 GGGGTTGCTCTGTTAGTGAAGTGAAGAACACAGGGGCTTAAAGCTGAGT 1492	QY	416 ATTAAGCTGCTGAGCGCTATTATGCTAAAGGCAAAAGTGGGTA 475	Db	1450 CAGGTGAGGGGGTTGATGATAATTAACAGAGATCATGACCTGCAAGAAC 1509
Db 433 AGGACCTATTGCTCAGCTCTGGAGTCATCACGCCCTGACGCT--TGAAGAATGGAGT 489	QY	476 AGAGGAAATCACCCTGGGACATTCGGCATCTGGCAACATTCACATGGAAC 535	Db	1493 ATGGCAAGTATGGTAAAGACGCTGAGGAGACGAGTTATGGTCA 1552	QY	490 ATATCTAGAAGCTATGGAGGGTGGGGCAACGAGGGTGTGATTACCATCGAGAACTC 549	Db	1510 CAGCCTCAATGAGTCGTTGACTGTTAGTCTATTCACACAGAGGAGTGTG 1569
Db 536 TATCGGTGACGCTATGGAGAAATGGTAAAGAGGGCTGATCACCGTGGAGACTA 595	QY	550 GASGTTAGGAAACAGAACATTGAGCTGGTGAAGGAGTGTGATGAACTTGT 609	Db	1553 TCGCTCTACAATGCGGTTCTGTTAACCCCTTACACAGAACCCGT-- 1610	QY	596 AGGGCATGAGAATGGATGCGTAGAGGGATGCAATTGTTAGAGGTACTCT 655	Db	1570 CTAAATACCTTACACAGTACGCCAGCSCAACAGCCGAGGTATGGTCAGGA 1629
Db 610 CTCAATACATGGCACAGACATGAAATGGTCGACACTTGAAACCTTATCT 669	QY	611 TTTTACGGGATAAAATCTCTAGCATGAGAACATCTCCGCCTACTAGAAACCA 775	Db	1611 -GCATGAAATCAAGAGAAAGCAGTCTGGCTCATGGCATGGCG 1669	QY	656 CCCTTTATTGTTGACGCGCTGAGAAATGACCGCTCAATTGGTTAGCTAAC 715	Db	1670 GTAGGGGGCTGGCG 1688
Db 670 TAATCGGATAAAATGGTCAAACATCACGACATTGCTGACTGTGAGGAGTC 729	QY	730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789	Db	1670 GTAGGGGGCTGGCG 1688	QY	776 TGAAGGGCAACCGCTTATCATCGCTGAGACATGGGGAGCTTACAGA 835	Db	1670 GTAGGGGGCTGGCG 1688
Db 790 CCTTGCTCTGACAGAACATTGGCTGTTACTTCATGTTGCTGCAAGGCCAGAT 849	QY	791 TGGTGTGCTGTTGAGCTATGCTGTTGAGACGATGCTTACAGTGGCAACAGT 895	Db	1716 TTAAAGCTGCTGTTGAGGAAATGGGGCTTAAAGTCCCGGT 895	QY	850 TGGTGTGCTGTTGAGCTATGCTGTTGAGACGATGCTTACAGTGGCAACAGT 909	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789
Db 836 CTCTAGGAGGAAATTAAGGAGCGCTGAGCTGAAATGGGGCTTAAAGTCCCGGT 895	QY	895 TGGGGCAACGGCTTACATGGGGAGCTTACAGTGGGGAGCTTACAGA 955	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789	QY	910 TACAGAGGACTGGAGCTTGTGATTAAGATGCTAACATGAGCAGCTGCTT 969	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789
Db 970 CTAGAATACAGTGTGATGAGTACATGACAGAACATTGCTGAGGCTGAGCTG 1015	QY	966 TGGGGCAACGGCTTACATGGGGAGCTTACAGTGGGGAGCTTACAGA 955	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789	QY	1016 GRAGGAGTTGAGTGTGAGCAACACACACAGCTGAGTGTGAGTGTGAGCTG 1075	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789
QY 1030 CTATGCTAAACCTGATGACTGTTAATGGCTTAAAGAACACAACTTGTGACTTG 1089	QY	1029 CTATGCTAAACCTGATGACTGTTAATGGCTTAAAGAACACAACTTGTGACTTG 1029	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789	QY	13 ATATGCCAACAGAACATCAATTTCAGCAGATGCCGCTGTCGCATGCTGGCGACTTG 72	Db	1730 TAAACGCAACGCTTACTCTTATGAGGAGTGTGACTGTGAGACTTCAC 789

RESULT 8
US-08-46-662-7
; Sequence 7, Application US/08466662B
; Patent No. 613059
; GENERAL INFORMATION:
; APPLICANT: Covacci, Antonello
; APPLICANT: Bugnoli, Massimo
; APPLICANT: Telford, John
; APPLICANT: Macchi, Giovanni
; APPLICANT: Rappuoli, Rino
; TITLE OF INVENTION: Helicobacter Pylori Proteins Useful For Vaccines And
; FILE REFERENCE: CHIR057
; CURRENT APPLICATION NUMBER: US/08/466,662B
; CURRENT FILING DATE: 1995-06-06
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 7
; LENGTH: 1639
; TYPE: DNA
; ORGANISM: Helicobacter pylori
; US-08-466-662-7

Query Match 31.8%; Score 528.6; DB 3; Length 1838;
Best Local Similarity 58.9%; Pred No. 4.7e-46;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;

Qy 73 ATATGTTACGAGATACCGTCAGTAACGCTGGCTTAAGGCCAATGTGTCTG 132
Db 116 GCGAACTTCATGAGCGCTGCAACTAACGATCAGGCGAACAGCGAAGATGATC 175
Qy 133 AAAAGCTTGTGTCCTTAATTAACTAATGAGGGTAAACATTGCTAAGAGATC 192
Db 176 AAAAGCTTGTGCGCTCCAGCATCACAAAGAGCGGAGGAGATGATC 235
Qy 193 ATTTAGAACATCTTGAAGAACATGGAGAAATATGGCTGAAAGGGTCTPAAA 252
Db 236 ATTAAGTGCCAGTGCACATGGCGCTCACTGTAAAGAGATC 295
Qy 253 CCAATGATTTGCTGGATGGAGACTATGCACTGACAGTTGACARAGCATTGTC 312
Db 296 CGCGATCTGCGCGATGAGCACCAGGAGGCGCTACTATGCAATTAA 355
Qy 313 ATGAGGATTAATGTCACACAGCTGAGCTGAAAGCCATTGTTAGGGCTG 372
Db 356 AAGAAGTTGAGAATACGCGTGGCGTGGACGAGGAGGCGCTG 415
Qy 373 AACACGACACAGCAAGCTGAGCTGAGCTGAAAGCCATTGTTAGGGCTG 432
Db 416 ATTAAGCTGTGAGGATCAATAGCTTAAAGCAGCAACAGAACAGGCTA 475
Qy 433 AGGAAGCTTGTCTACGCTGCGTGCAGTACATCACGCTC---TAAAAGTTGAGCT 489
Db 476 AAGANGAAATCACCGAACGGCTTGTCAAATTCGGAAAC 535
Qy 490 ATATCTCACAGCTATGGAGCTGGCTGGCACTGAGTGTGATPACCTCAGATC 549
Db 516 TCATCGCTCACCTTGGAAAGTGGTAAAGCGCTGTCACCTTGAGGCTA 595
Qy 550 GAGGTATGGAAAGACAGCTTGAGTGGTTAACGGCATCAGTACCTTGACCGTGTACCTG 609
Db 596 AGGGATGAGATGATGATGCTGAGGCGATGATGAGGCTACCTG 655
Qy 610 CTCAATRACTGGTCAAGACATGAAATGTTGAGACCTGAGAACATTATC 669
Db 656 CCCCTTATTTAACGAGCGAGAAATGACCGTCATGATGATC 715
Qy 670 TAATCACGSGATAAAACGTCACATCAGAACATTGCACTTGAGCTG 729
Db 716 TTTRACGGATAAAATCTTAGATGAGCATCACAAACCA 775
Qy 730 TAAACACACGGCTCATATCATCATTGCAATGATGTTGAGGCGAACCTCAA 789
Db 776 TGAAGAGGCCAACGGCTTPTATCTGGAGCATGTGGGAGCTTAAAGA 835
Qy 790 CCCTGTCTGACAGATCTGGTACTCTCATGTTGCTGTCACCGCAGAT 849
Db 836 CTCTAGTGTGATAATTAAAGGGCTGATGAGATCGAGGTTAACCTCCAGCT 895
Qy 850 TTGGTATGTTGAACTGATCTGGATGAGCATGTCAGTGTGAGCTG 909
Db 896 TTGGGAGACGAGAAAGAGATGCTCAAGACATCCTATTAACCGCGCT 955
Qy 910 TTACAGAGGCTGAGCTGATGATTAAGATGATCAGAACGCGCTTGAGCTG 969
Db 955 TTGGGAGAAATGGCTGAGCTGAGTGTGAGGTTAACCTGAGCT 1015
Qy 970 CTAGATGATGAGCTGATGAGATGAGCTGAGCTGATGAGCTGAGCTGAG 1029
Db 1016 GAAGGATGTTGATGACAGAACACACGCTGAGCTGAGCTGAGCT 1075
Qy 1030 CTATGCTACCGTMTGCACTGCAATTAGAACACACTCTGACTTGT 1089
Db 1076 ATGTTAAAGACAGACTCGCGTCAAGAACCAATTGCAAGCTGATC 1135
Qy 1090 ACCGTAAACATGAGAACGCTGGCAATTAGCTGAGCTGAGCTGAG 1149
Db 1136 ACAAAAGAAATTGCAAGAAGATGCTTAACCTCTGCGGTTGGCTGTTAAG 1195

Qy 1150 TAGGAGCTCCACAGAGACGTTAAAGAAATGAACTCCATGAGATCCTAA 1209
Db 1196 TGCGCGMPGCCGCTGAGGAAATGAGAGAAAGAGAGAGCCGGTGGATGACCGCTG 1255
Qy 1210 ATGTCACXGTCAGCGTGTGAGAGGGTATCTGCTGTTGTTGAAAGACTTTA 1269
Db 1256 GCGGACTAAAGCGCGGTTGAGAGGCGATGTCATGTTGGCGGCGCTCATTC 1315
Qy 1270 CGCTTATGAAAGCTAGAGCTCTGACTGAGCTGAGGATGTCATGGAGTAC 1329
Db 1316 GCGGGCICAAAGT--GCATTAAGATGCGCATGATGAAAGTGGCTATAAA 1372
Qy 1330 TTGGCTTGRCGCTTGTAGAGCGCTGTCACATTGCTTAACTGCTGTTACGAA 1389
Db 1373 TCATCATGCGGCCATTAGGCCATTAGCTCAATCGTAACTAACGCTGTTATGATC 1432
Qy 1390 GCTCGTGTATGAGCTGAGCTGAGCTGAGCTGAGGATGTCAGGCTG 1449
Db 1433 GCGCTGCGCTGAGCTGAGCTGAGGATTTGTTTAAAGCTGCA 1492
Qy 1450 CAGGTAGTGTGAGCTGAGCTGAGGATTTGTTTAAAGCTGCA 1509
Db 1493 ATGCGAAGTGTGAGATGTTAAAGAGGATPATGACCGCTTAAAGTGAAGGA 1552
Qy 1510 CAGCGCTCAATGAGCTCTGTGACTGTCATTGACAGAGCGAGCTG 1569
Db 1553 TCGCTCTACAAATGCGTTACGCTGCTCTTAAACAGACGCCACCGT.. 1610
Qy 1570 CTATAAACCGAACGAGCTGGCACTGGCGACATGSCACAGTGTGACAGGAA 1629
Db 1611 -GATGAAATGAAAGAACGAAAGGACTCCGCAATGCTGATGACAGGAA 1669
Qy 1630 TGTGGTGTGAGCTGG 1648
Db 1670 GTTGGGAGCATGGCGG 1688

RESULT 9
US-08-256-847C-6
Sequence 6 Application US/08256847C
Patent No. 6403099
FILE REFERENCE: CHIR-042
CURRENT APPLICATION NUMBER: US/08256-847C
APPLICANT: Rappoli, Rino
APPLICANT: Costantino, Paolo
APPLICANT: No. 6403099all, Francesco
TITLE OF INVENTION: Conjugates Formed From Heat Shock Proteins And Oligo or Poly
FILE NUMBER: F192A/000058
CURRENT FILING DATE: 1994-11-01
PRIOR APPLICATION NUMBER: PCT/EP93/00516
PRIOR FILING DATE: 1993-03-08
PRIOR APPLICATION NUMBER: F192A/000058
PRIOR FILING DATE: 1992-03-06
NUMBER OF SEQ ID NO: 7
SOFTWARE: Patentin version 3.1
SEQ ID NO 6
LENGTH: 1838
TYPE: DNA
ORGANISM: H. pylori
FEATURE:
NAME/KEY: CDS
LOCATION: (38)..(1695)
OTHER INFORMATION:
US-08-256-847C-6
Query Match: 31.8%; Score 528; DB 4; Length 1838;
Best Local Similarity 58.9%; Pred. No. 4.7e-16;
Matches 966; Conservative 0; Mismatches 664; Indels 9; Gaps 3;
Qy 13 ATATGCAAAAGAAATTCAGCTACAGTGTGAGGAACTTGTGAGGCTG 72
Db 56 AAATGCCAAAGAAATCAATTTCAGATGTCGAGAACTTGTGAGGCGTGA 115

QY 73 ATATGTTTACGACATACCGTCAGAAGTAACGGCTTGTCTAAAGGCGCAATGTTGTC 132
 Db 116 GGCACACTCCATCAGCGTCAGATGTRACCATGGGCCAGGGCAGRATGATGATCC 175
 QY 133 AAAAACGCTTGTGTCCTTATRACTATRACTATACGGGPRACCATGCTAAAGAGATCG 192
 Db 176 AAAAACGCTTGTGTCCTAAGGATCACCAAGGGCTGAGGGCTGAGGGCTGAGGGCT 235
 QY 193 ATTTGAAAGATATTGAAACATGGGCCAAATMGGTCTGAGTGGCTCTCAA 252
 Db 236 ATTTAGTGTGCCCACTAGTACATGGGCCCTACIGCTTAAGGAGTGGGAGC 295
 QY 253 CCGATGATTCCTGGTATGGGCCACTACTGCAACAGTTGACACAAGCTTTC 312
 Db 296 CGCGCAGATGCTCCCGCGTGACGCCACACGGCCAGGCTGCTAGCHTATGCTTAA 355
 QY 313 ATGAGGGACTAAATAATGAGCAGCGGCGCTATCATGTTACCGTGTGAGGCTT 372
 Db 356 AGAGAGTTGAGGATATCAGCGCTGCGGCTAACCTTATGAGTGAAAGGGCT 415
 QY 373 AACAGCACACACACACGCTGTTGAGCTTGAACCCATTGCAACCTCGGAA 432
 Db 416 ATAAGCTGCTCAGCGATCATTTATGAGCTTAAAGGAGCAGAAAGTAGCGCTA 475
 QY 433 AGGAGCTATGCTCAGGCGCTGAGTACATCGCTC--TGAAGAAGTGGAGT 489
 Db 476 AAGGAGAAATCACCACCGACATTGCAACCTCGGAA 535
 QY 490 ATATCTCGAGCCTGGAGCTGGGCAAGGAGATGGTATACATCGAAGAACTC 549
 Db 536 TCATCGCTGCGCTATGGAAAGAGGGTAAAGAGCGGCGATCACCGTGAAG 595
 QY 550 GAGGTATGAAAAGAGCAACTTGAAGGGTGAAGGCAATTGACCGGGTTACCGT 609
 Db 596 AGGCATTTGAGATGGTGGTGAAGGGCATGCAATTGGTATGGGTACCTCT 655
 QY 610 CTCACTCATGTCAGCACAGCATGAAAGATGGTGCAGCTTGAACCCATTCTC 669
 Db 656 CCCTTATTGTTGAGGACCTSGAGAAATGCGCTCAATGGTATGCTACATC 715
 QY 670 TAATCAGGATATAAAAGTGTCAACATCCAGACATTGCGACTCTGAGGAGT 729
 Db 716 TTAAAGGGGCAACCGCTTTATCATCGTGAAGACATGGGGCAGCTTAAAG 775
 QY 730 TAACACACCCGCTTCTGAGATGGTGTGAGTGGTGTGAGACTC 789
 Db 776 TGAAGAGGGGCAACCGCTTTATCATCGTGAAGACATGGGGCAGCTTAAAG 815
 QY 790 CCTTGCGCTGACAGCATGTTGACTTCACTGCTGCTCAAGGCCCGGAT 849
 Db 836 CTCTAGGGTGAATTAAGAGCGCGTGTGAGATCGCAGCGTTAAGGCTCCAGG 895
 QY 850 TTTGGTATCTCTTAAGCTATGGTGTGAGACATGCPATCTGAACAGTGACG 909
 Db 895 TTTGGTACAGTTGAATGATGCAAGCTGCAAGATGCTCAAGACATGCTA 955
 QY 910 TTTACAGAGGTCTGGACTTGAATTAAGATGCTACATGACGCCCTGACAGCG 969
 Db 955 TTTAGCGAGGATGGCTGTGCTTGTAGAAACGCTGAGTGGTGTGAGGTTT 1015
 QY 970 CTAGATGTTGAGCTGATAAAGATGCAAGCTGAGTGTGAGGTTCTGAG 1029
 Db 1016 GAGGGATGCTGAGCACAGCACAGCGATGAGTGGTGTGAGGGCAAGCC 1075
 QY 1030 CTTAGCTTACCCATTGACTGTTAAATGCGATAGAAACACACTCTGACTCT 1089
 Db 1076 ATTTGTTAAGCACAGTCGCGCAGATCACAAACCCAAATGCAAGTACG 1135
 QY 1090 ACCGCGAAAATCACAGACGTTGGCAATTAGCTGGGGTGTGAGTGTATCAAG 1149
 Db 1136 ACGGAGAAATTCGCGCAGATTCGCTAACCTCTGCGGGTGTGCTGAGTAAAG 1195
 QY 1150 TAGGAGCTCCACAGAGCACGCTTAAAGAAAGTCTGGATGAGGATGCTAA 1209

RESULT 10
 US-09-001-737-7.rn1
 Sequence No. 28, Application US/09467822
 ;
 Patent No. 5843160
 ;
 GENERAL INFORMATION:
 APPLICANT: Labigne, Agnes
 APPLICANT: Sauerbaum, Sébastien
 APPLICANT: Ferraro, Richard L.
 APPLICANT: Thibierge, Jean-Michel
 TITLE OF INVENTION: IMMUNOCENIC COMPOSITIONS AGAINST
 TITLE OF INVENTION: HELICOBACTER INFECTON, POLYPEPTIDES FOR USE IN THE
 TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 NUMBER OF SEQUENCES: 44
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
 ADDRESSEE: Dunner
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.1.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/467,822
 FILING DATE: 06 JUN 1995
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/447,177
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 435
 PRIORITY APPLICATION NUMBER: US 08/432,697

FILING DATE: 02-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REFISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03495.0137-02000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4000
 TELEFAX: (202) 408-0000
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2284 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: Linear
 MOLECULE TYPE: DNA (genomic)

US-08-167-822-28

Query Match 29 9%; Score 496.6; DB 2; Length 2284;
 Best Local Similarity 58.1%; Pred. No. 1.5e-136; Matches 953; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

QY 13 ATATGGCAAMAGAAATCMAATTTCAGCGAATGCGCTGCCATGGCCGAGTTG 72
 Db 504 AAACGCAAGRAGRATCATAATTTCAGATAGCGCAAACCTTTTGAAGCGTAA 563
 QY 73 ATATGTGATCAGATACCGCGAAAGTAGCTACCTTGCTTAAGGCGGAAATTTCTG 132
 Db 564 GACAATTCCTCAGACCTGCCTAACAGTGTGACATGGGCCAGAGSCGAGCTTG 623
 QY 133 AAAACGTTTGGTCTCCCTAATCTAACTACGCGGTAAACCTTTTGAAGCGTAA 563
 Db 624 AAAAACGTTATGGCCTCAGACATCCAAAGGAGCTTACATGGCGCTAGCGTAA 563
 QY 193 AATTTAGAACGATTTGAAACATGGGCAAATGGGTCTGAAGTGTCTAA 252
 Db 684 AATTTAGTTGCCCTGCTTACATGGCGCTAGCGTCAAGAAGATGGCGAA 743
 QY 253 CCATATGATATGGCTGGCTGGACTACTGCACAGTTGACACACCCATGTC 312
 Db 744 CCGCTGATGCGCGCGCGACGACGACGACGACGACGCGCTGGCTATGACATTAA 803
 QY 313 ATGAACTAAATGGAGGAGGSGCTTACCAATTGGTATCGTGTGCGATG 372
 Db 804 NAGGGCTTGGGATTCACCTTGGCTTACCTTGTAGTGAACGGAGCATGG 863
 QY 373 AAACGAGCACAGCACACTCTGGACCTTAAACCTTGTCAACCGTACTGCA 432
 Db 864 ATAAGGCCTGAGGCGATCTTATGACCTTAAAGGCGCTTAAAGGAGGCAAA 923
 QY 433 AGGAGCTATGGCTCAGTCCTGGATATCTACGCTCGCT -- TGAAGATGGAGT 489
 Db 924 AATRAGAACCTCCAACTGCGACATTCGGCAACTCGTCACATCGGAAAC 983
 QY 490 ATATCTCAGAGCTATGGGGTGGGGCAGATGCTGTGATTAACCTGAAAGATCTC 549
 Db 984 TCAAGCTGAGCTTATGAAAGGGTAAAGACGGCTGACCGTGGAGAGCTA 1043
 QY 550 GAGGTGAGAACGAACTGGTGAAGGGATGCAATTGACCGGGTTACCTGT 609
 Db 1044 AGGGCATGTAGATGATGCTGAGGCAATGAGGCTGACATTGTAGAGGCT 1103
 QY 610 CTAAATACGAGTCAGACGACATGAAAGGGTGCAGACCTGAAACCCATTAC 669
 Db 1104 CCCTTACCTTGTGTTACCCACCTGAGAAATGACCTCAATGGTATGCT 1163
 QY 670 TAATCAGGGATAAAAGTGCAGAACATCAGACATTGGCTACTTGAGGAGTT 729
 Db 1164 TTTCAGGGATAAAATCTCTAGCGAAGAGATCTCCGGTACPGAGAAAACCA 1223
 QY 730 TAAACCAACCGTCATACATCTATTGCGATGATGTTGAGCATTGCGCT 789
 Db 1224 TGAAGAGGCCAACCGCTTTAATCAGCGTGAAGACATTTGGGGAGCTTACCA 1283

Query 790 CCCTTGTCTGACAGAGTTGGTCACTTCATGTCGTTGCTGTCAAAGGCCAGAT 849
 Db 1284 CCTCTAGTGGGAAATTAAATGAGCTGATCCACCGTTCTGAGAGCTG 1343
 QY 850 TTGGTGTATCGTCGTCGAACTGCTTGAAGACATGGCTGTTGCTGAGGGT 909
 Db 1344 TTGGGACAGGAGAATGCTCAAGACATGCGCTTTTAACCGGGTCAGTC 1403
 QY 910 TTACAGAGGAGCTAGACTGAATTAAGAATGCTACATGACAGGCCCTGGACAGCTG 969
 Db 1404 TTACGGRAGATTGGCTGTCAGAACGCTGCTGATGGAGTTAGGCAA--AG 1460
 QY 970 CTAGAGTTAATGTTGATAGATAGCTAGATATGTTGAGGTTTCAGGAA 1029
 Db 1461 CGAAGATGCTGACGACGACACCCAGCTGGTAGTGGCAAAAGGCCATGAC 1520
 QY 1030 CTATGTCATCCGTTACGGTACCTGATTAATGCAATTGAAACACAACTTGACTTG 1089
 Db 1521 ACCCTAACAGACAGAGTGGCGCAATTCAAACCAAAATTCAGCAGCAAGGATTC 1580
 QY 1090 ACCGTGAAACATACAGAAAGCTGGTGGGAATTAGCTGCTGTTGTTGTTGAGT 1149
 Db 1581 ACAAGAAATATGGCAAGAATGCTGCAACACTCTCGCGCTGGTGGTGGTGAAG 1640
 QY 1150 TAGGACTCCACAGACAGCTTAAAGAATGACTCTGGCATTTGGGATGCTCTA 1209
 Db 1641 TGGCGCTGCGAGINGAATGGAATGAGAGGAAAGACGGGGHGTGAGCGCTTA 1700
 QY 1210 ATCTTACACTGTCAGCGGTGAAGAAGSTARGTGTGCTGGTGGTGGTGAACAGACTTAA 1269
 Db 1701 GCGGACTTAAGCGCGCTGTTAGGAGGAACTGCTGCTGGCTGGTGGTGGTGAACAGACTTAA 1760
 QY 1270 CGTTTATGAAAGATGCACTGAGCTTGTGCTGTTGCTACTGACGTAACA 1329
 Db 1761 GCGCGCCCAAAGT -- SCATTGATTTACAGGAGTCAAGAATGGCTATGAMA 1817
 QY 1330 TGTCTTGTCTGGCTTGGAGGCTTACCTTAAATGCTTTAATGCTGGTGGAG 1389
 Db 1818 TCATCATGGCGCCATTAAGGCCCATTTAGTCACAAATGCPATCATGCCGTTATG 1877
 QY 1390 GCTCCATAGTATGACAGTTGACACACGCCCCTGCGAGACAGGATTATGTCGA 1449
 Db 1878 CGCTGTGGCGCTGAGTGAAGTGAACACGAGGCTTGTGTTTAACGTC 1937
 QY 1450 CAGGTCAGGGTGTATGATTAACAGAACTGATGACCTGCTCAAGTACACGAT 1509
 Db 1938 ATGGCAGATGATGGGAGCTTAAAGGAGGCTTATGACCCCTTAAGAGTAAAGA 1997
 QY 1510 CAGCTTAAATGAGCTCTGAGCTTATGCTATGACACAGAGCAGCTG 1569
 Db 1998 TCCCTTACAAATGGGTTCTGGTTCAAGCTGCTTACCAAGCCACCGT-- 2055
 QY 1570 CTAAATACGACAGCTACCCACCGCAGAATGCGCAAGCTGAGTGTGATTCAGGA 1629
 Db 2056 -GCATGAAATCAAGAGAAAAGCCGCCAGTCGATATGGGGCATGGGG 2114
 QY 1630 TGTGGTGGGGGG 1648
 Db 2115 GATGGGAGGCTGGCGG 2133

RESULT 11
 US-08-432-667-28
 Sequence 28, Application US/08432657
 Patient No. 6248310
 GENERAL INFORMATION:
 APPLICANT: Labigne, Agnes
 APPLICANT: Sauerbaum, Sébastien
 APPLICANT: Ferrero, Richard L.
 APPLICANT: Thibierge, Jean-Michel
 TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST HELICOBACTER INFECTION, POLYPEPTIDES FOR USE IN THE

TITLE OF INVENTION: COMPOSITIONS, AND NUCLEIC ACID SEQUENCES ENCODING SAID
 NUMBER OF SEQUENCES: 44
 CORRESPONDENCE ADDRESS: 44
 ADDRESSEE: Finnegan, Henderson, Parabow, Garrett &
 STREET: 1300 I Street, N.W.
 CITY: Washington,
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/432,697
 FILING DATE: 02-MAY-1995
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,46
 REFERENCE/DOCKET NUMBER: 03495.0137-00000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4000
 TELEFAX: (202) 408-4000
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2204 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08/432,697-28

Query Match 29.9%; Score 496; DB 4; Length 2284;
 Best Local Similarity 59.1%; Pred. No. 1.5e-136; Mismatches 674; Indels 12; Gaps 4;
 Matches 953; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

Oy 13 ATATGGCAAAAGAACATCAATTTCACAGATGCCGCGCTGCGCATGTTGGCGGAGTGT 72
 Db 504 AAATGCAAAAGAACATCAATTTCACAGATGCCGCGCTGCGCATGTTGGCGGAGTGT 563
 Oy 73 ATATGGTTCAGAGTACCGCAAGTAAGCTTGATGCGCAAGAACCTTTATTTGAGCGCAA 132
 Db 564 GACAACCTGGATGAGCTGGCCAGAACATGGACATGGGGCAAGAGGCAGACGTGATGCC 623
 Oy 133 AAAAGCTTTGGCTTCAATGACTATGAGGGPAAACATGCTTAAGAGATCG 192
 Db 624 AAAAAGCTATGGCTTCAGGATCACCAAGAGGGTGAGGTAAAGAGATG 683
 Oy 193 AATTAGAKATAATTTGAAAGATGGGCAAAATGGCTGGAAGTGCTTAAGA 252
 Db 684 ATTTAGTGGCCGGTGTAGCTGGCTTCAGCTGTTAAGAAGATGGGCAA 743
 Oy 253 CCATGATTTCTGGTGGGGCAACTCTGCAAGTTCAGCACAACCTTGTTC 312
 Db 744 CGCGTGTGCGCCGCGCGATGCCAGCACCGACCGTGTGCGTATGATTTA 803
 Oy 313 ATGAGGGACTAAATGTCACGCAAGCTCTATCCAATTTGATCGTGGSCATGT 372
 Db 804 AGAGGGCTGGGAATCACCGCNGSGCTAACCTTGAGTGTACAGCG 863
 Oy 373 AACAGCACACCCACAGCTGTTGAGGCTGAGCCATGCTCACCTGTC 432
 Db 864 ATAAAGCGCTGAGCGATCATATGAGCTTAAAGAGGCAAAGTGGCGCTA 923
 Oy 433 -AGGAAGCATTGCTGAGGCTGAGCTAACGCTC--TGANAGTTGGAGT 489
 Db 924 AGGANGAATCACCCTGAGGACCACTTCTGCAAGTCAACATCGAAAC 983
 Oy 490 ATATCTCGAGCTATGGAGCTGGGCACATGGTACCATCGAGAACTC 549

Db 984 TCATGCGGAGCCTATGCAAAAGTGGTAAGACGGCTGCGCTACCGGTGAGAGCTA 1043
 Oy 550 GAGGTATGAGAACGAGACTTGAGCTGAGGTTGAGGCTGCGTACCTGT 609
 Db 1044 AGGCATGAGAGTGTATGAGTGTGAGGCTGAGGCTGAGTGTACCTGT 1103
 Oy 610 CTCAATAGATGTCACACAGTAACTGAAATGGTCACCTGAAACCTTATCT 669
 Db 1104 CCCCTTACTTGTACCAACGCTGAGAAATGACGCTGATGCAATGATAAGCGCTACATCC 1153
 Oy 670 TAATCAGGATAAAAAGTGTGCAACATCCAGACATTTGGCAGACTTGAGTC 729
 Db 1164 TTTPAAGGATAAAAAAATCTCTAGTACGAGAACACTGAGTCAGTC 1223
 Db 1284 CTCTAGGTTGATAAATTAAGAGGCGTGTAAATCCAGGGTTAAGCTCAGCT 1343
 Oy 850 TTGTTGATGCGTGTGAAAGCTATGCTGTGAGGATGCTACTTGAGAGCTGAGGGCGAAGCTTAAAG 1283
 Db 1344 TTGGGACAGAGAAGAAGAAGATGCTCAAGAGATGCTTAAACGGGGGTCAAGTC 1403
 Oy 910 TTACAGGATGCTGGACTGTGATTAAGAAGCTGAGCTACATGAGCAGCCTGGAGGCTG 969
 Db 1404 TTACGAGGATGTTGGCTGTGCTGAGAACAGCTGAGTGGAGTTTGGCAA--AG 1460
 Oy 970 CTAGATTACGTGATAGATGACAGTAACTGATGTTGAGSTTGGAGGTCAAGAG 1029
 Db 1461 CGRAGATGTTGAGAACAGACACCACTGATGCTAAGCAAGGCCATAGCTG 1550
 Oy 1030 CTATGCTAACCGPATGCTACTGTAATGCCAATTTGAAACACACTTCGACTTG 1089
 Db 1521 ACCTGAGAACAGAGCTGGCAAACTCACAAACCAATTGCGACAGCAGGATTACG 1580
 Oy 1090 ACCCTGAAACACTGAGAAGCTGGGAAATTAGCTGTTGGCTGAGCTGATCAAG 1149
 Db 1581 ACAAGAAAAATTCGAAAGAAGATGGCCAAACTCTTGCGCTGGCTGATTAAG 1640
 Oy 1150 TAGGCCTCCACAGAGACGCTTAAGAAGAACTGAACTTGTGCTGATGAGGATGCTCAA 1209
 Db 1641 TGGCGCTGGAGTGAAAGTGAAGAAGAGGAAAGACCGGGGTTGAGGCGTGA 1700
 Oy 1210 ATGCCTACCTGGAGCGCTTAAAGAGTTAGTGTGCTGCTGAGCAGCCTTAA 1269
 Db 1701 GCGCGACTTAAGCGCGCTGTAGAGGCGATTTGGGCGGGCTGCGCCTCATTC 1760
 Oy 1270 CGTTAATGAAAGTGGCTCTGGCTGAGGGCTATGCTGAGCTGAA 1239
 Db 1761 GCGGGCCCAAAGT---GGATTGATTTACAGATCAAAGTGGTATCAA 1877
 Oy 1330 TTGCTCTCGTGTGCTGAGAAGGCTGTGCTGCGCTAAATGCTTAATGCTGTTGAG 1389
 Db 1818 TCATCTGCGCCATTAAGCCCATTAGTCCTCACATGCTCATGCGGTATGATG 1877
 Oy 1390 GCTCGCTGTTATGAGCTGAGCTGAGCTGAGGCTGAGCAGCTTATGCTGCAA 1449
 Db 1878 GGCGTGGCGCTGAGAAGTGGAGCTGAGGCTGAGGCTTAAAGCTGAGCTGCA 1937
 Oy 1450 CAGGTGAGTGGTGTGATGTTAAAGAGGATCATGACCTGTCAGAGTACAGAT 1509
 Db 1938 ATGGCAGTGTGGAGATGTTAAAGAGGCTTATGACCCCTTAAGGTGAAAGGA 1997
 Oy 1510 CAGCGCTTAAAGCAGCTCTAGTACCTCTATGACAGAGGAGCTG 1569
 Db 1998 TCCTTACAATGCGTGGTGGCTAACGCTCTTAAACGAGGACCGACCT 2055
 Oy 1570 CTATACCTGACCGCTGAGCTGAGGCTGAGGCTGAGGCTGAGGCTGAGTC 1629

Db 2056 -GCATGAAATGAAAGAAAAGCGGCCAACGAAATGCCATGGCTATGGGTTGGCATGGCG 2114
 Qy 1630 TGATGGTGGCATGGCG 1648
 Db 2115 GATGGGGCATGGCG 2133

RESULT 12
 US-08-466-248-28
 Sequence 28, Application US/08466248
 ; GENERAL INFORMATION:
 APPLICANT: Labigne, Agnes
 APPLICANT: Sauerbaum, Sébastien
 APPLICANT: Ferrero, Richard L.
 APPLICANT: Thibierge, Jean-Michel
 TITLE OF INVENTION: IMMUNOGENIC COMPOSITIONS AGAINST
 TITLE OF INVENTION: HELICOBACTER INFECTION POLYPEPTIDES FOR USE IN THE
 TITLE OF INVENTION: COMPOSITIONS AND NUCLEAR ACID SEQUENCES ENCODING SAID
 NUMBER OF SEQUENCES: 44
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Finnegan, Henderson, Parabow, Garrett &
 ADDRESSEE: Dunner
 STREET: 1300 I Street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005-3315

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US-A8/466,248
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 435
 PRIMER APPLICATION DATA:
 APPLICATION NUMBER: US 08/447,177
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 435
 PRIMER APPLICATION DATA:
 APPLICATION NUMBER: US-A8/432,697
 FILING DATE: 02-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Meyers, Kenneth J.
 REGISTRATION NUMBER: 25,146
 REFERENCE/DOCKET NUMBER: 03-95-0137-02000
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 408-4400
 INFORMATION FOR SEQ ID NO: 28:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2284 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: DNA (genomic)
 US-08-466-248-28

Query Match 29 9%; Score 495.5; DB 4; Length 2284;
 Best Local Similarity 58.1%; Pred. No. 1.5e-36;
 Matches 955; Conservative 0; Mismatches 674; Indels 12; Gaps 4;

Qy 13 ATATGGCAAAAGAATCATAATTTCAGCAGATGGGTGTCATGGTGGCGAGATG 72
 Db 504 AAATGGCAAAAGAATCATAATTTCAGCAGATGGCAAAACCTTATTTGAAGCGCTAA 563
 Qy 73 ATATGGTAGCAGATCCCTTAAGTACCGCTTGCTCTAAAGGSCCAAGTGTCTTG 132
 Db 564 GACAACACTCTGACCCCTGCAAGTAAACCATGGGCCAAGGCGAGGAGCTGTGATCC 623

Qy 133 AAAAAGCTTGTGTCCTCTTAAATCTAAATGACGGGGTACCATCTGCTAAAGAGATG 192
 Db 624 AAAAAGCTATGGCTCCAGATTCACCAAGCGCGTGGCTTAAGATGATG 683
 Qy 193 AATTAAGAATATTGAAACATGGGCAAATGGTGTCTGAATGGTGTCTCAA 252
 Db 684 AATTAGTGTGCCCCGGTGTACATGGCGCTCAGCGTAAAGAAGATGCCACAA 743
 Qy 253 CCATGATATGCTGTGATGGGACCACTACTGCAAGAGTTTGACACAAGCCATGTG 312
 Db 744 CGCTGATGCCGCCGCGACACACGACGCGCGTGTGATGGCTTATGCAATT 803
 Qy 313 ATGAGGACTTAAATGCAACGCGAGGCTTAATCCATTGTTATGGCTTACCGT 372
 Db 804 AGAGGGCTGAGGATATCACGGCGGGCTAACCTTATGAGTAAACGAGGCTG 863
 Qy 373 ARACGACACAGCACAGCTGTTGAGCCTGTAACCGATGCTCAACCTATCTGCC 432
 Db 864 ATAANGGCCTGAGGGATTAATGAGCTAAKAGGAGGCAAAAGTGGCGCTA 923
 Qy 433 AGGAGACTATGCTGTGAGGCTATGGTAAAGTGGTAAAGACGGGACACGGGAC 489
 Db 924 AAGGAAATACCCACGAGGACATTGCTGACRACACTCGTCAATACGGAC 983
 Qy 490 ATATCTGAGACCTGGTGGCAGCTGTCACATTGTTGAGTACCTGGAGAATCTC 549
 Db 984 TCATRGCGAGGCTATGGTAAAGTGGTAAAGACGGGACACGGGACACGGTGAAGAC 1043
 Qy 550 GAGGTATGAAACGACACTTGAGTGTGTTGAAGGCTGCAATTGACCTG 609
 Db 1044 AGGCATGATGAGATGATAGTGTGAGGGCATGTCACATTGAGGCTACCT 1103
 Qy 610 CTCAATCATGTCICAGACATGAAATAATGTCAGCTGAAACCCATTATC 669
 Db 1104 CCCCTTACTTGTAAACCACCGCTGAGAAATGACCCCTCATGGTACATC 1163
 Qy 670 TAACTGGATAAAAGTGTCAACATCAGACATTTGCAACTRACTGAGGATC 729
 Db 1164 TTTRACCGTAAARAAATCTTAGCATGAGACATGCTTCGGCTACTAGAARACCA 1223
 Qy 730 TTAACACCAACGGCICATPACTCATATTGCGAGTGTGTTGGAGACTTC 789
 Db 1224 TGAAAGGGCAACGCGTTTAACTACCGTCAAGCTTGAGGCGGAGCTTACGA 1283
 Qy 790 CCTTGTCGAGAAGATGTTGCTGACTCTGTTAATGTCAGCTGTCAGCGCGATG 849
 Db 1284 CTCAGTGTGAAATAATTAAGGCGGCTGTTGAAATCAGCGGTTAAAGCCTGGCT 1343
 Qy 850 TTGGTGTCTGGTAAAGCTATGCTGAGACATCCATCTGAGCTGGTGTACAGTA 909
 Db 1344 TTGGGACAGGAGAAAGAATGTCAGCATGCTTTAACCGGGCTGAGCT 1403
 Qy 910 TTACAGAGGACTGAGCTGTAAAGATGTCACATGCAAGCCCTGGACAGCTG 969
 Db 1404 TTACGGAGATGGCTGTGTCAGAAGCTGAGTGGAGTTGGCA---AG 1460
 Qy 970 CTAGAATGAGTGTAAAGTGCAGCAGTGTGAGGTTGAGTGTGAGGAGTCAG 1029
 Db 1461 CGAAGATGAGTGTGAGAAGACACACGATGTCAGTGGCAAGGCCATAGGCC 1520
 Qy 1030 CTATGCTAACCTGATGCACTGTTATGCACTGTTGAGCAACACCTTGACTT 1089
 Db 1521 ACCTCACAGACGATGCGCAAACTAACCCAAATTCGACGCGACCGATG 1580
 Qy 1090 ACCGTAAACATGAGAAGCTGGGAATATGCTGTTGTTGCTGTCTGTTAAG 1149
 Db 1581 ACAAGAAATGCGAGAAGTGGCCAAACTCTCTGGGGTGCTGCTGAA 1640
 Qy 1150 TAGGACTCTCACAGGACAGCTTAAAGAATGAACTGCGATGAGGAGTC 1209
 Db 1641 TGGCCCTGCGACTGTGAGTGGAAATGAGGAAAAAGACGGGGTGGATGACGGCTGA 1700

Db 1210 ATGCTACAGTCGACGGCGTTAGAGAAGGTATCCTGTTGGGGGAGCACCTTATA 1269
Db 1701 CGCGCACTAACAGCGCGGGTGAAGAAGGATGTTGANTGGGGGATGCGGCCCTAC 1760
Db 1270 CGGTATTGCAAAAGTAGCAGCTCTCGCTGAGCTTGAGTGTACTGGACCTAA 1329
Db 1761 CGCGGCCCAAAGT--GCATTGATTAACAGTATGATGAAAGTGGCATGAA 1817
Db 1330 TGTGCTCTGCTCTAGAGACGCCGCTGCTGAACTGCTTAACCTGGTACGAG 1389
Db 1818 TCACTATGGGCCCTAAAGGCCCTATCTCAATGCGATCAGCCGTTATGATG 1877
Db 1390 GCTCTGCTGTTGAGCTGAAACAGCCTCGCAGCAGGACGAGGATTATCGCA 1449
Db 1878 GGGGGCTGCTGCTGAGTGAAGAGGAGGATTTGGTTACGCTAGCA 1937
Db 1450 CAGGTTGAGTGGGTTGATGATTAACAGGATCAATGACCTGCTAAGTACACAT 1509
Db 1938 ATGGCAACTATGGACATTTGAGCTTAAAGGGCTTAAAGTAGAAGGA 1997
Db 1510 CAGGCCCTCAAAATCAGCTCTGTTGAGTGTAGTGTATTGACAAAGCAGTGTG 1569
Db 1998 TCGCTTACAAATGGGTTGGTTCAAGCTGCTTAAACCGACCGCTTAAAGTAGAAGGA 2055
Db 1570 CTTAAACCTGACCGCTAGGCCAGCAGCAATGCGAGCAGTATGGATCAGAA 1629
Db 2056 -GCATGAAATCAGAAGAAAAGGCCAACATGCTGATAAGGGTGCATGCG 2114
Db 1630 TGTGGCGCGGTGGGG 1648
Db 2115 GAATGGGAGGCATGGGG 2133

RESULT 13
; Sequence 3, Application US/08955565A-3
; Patent No. 6331388
; GENERAL INFORMATION
; APPLICANT: Malovský, Miroslav
; APPLICANT: Weis, Andrew
; TITLE OF INVENTION: Immune Response Enhancer Therapy
; FILE REFERENCE: WAFR-02625
; CURRENT APPLICATION NUMBER: US/08/955, 565A
; CURRENT FILING DATE: 1997-10-17
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: Patentin version 3.0
; SEQ ID NO: 3
; LENGTH: 4380
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; US-08-955-565A-3

Query Match Best Local Similarity 27.6%; Score 458.6; DB 4; Length 4380;
Matches 875; Conservative 0; Mismatches 694; Indels 0; Gaps 0;

15 ATGCCAAAGGATCAATTCTCAGCTGGGCTCCATGTCGGGGAGTGT 74
252 ATGCCCAAGACATGCTACGACAAAGGCCGCTGGGCTTACGCGGCT 311
75 ATGTTGAGCTGAGCTTAAAGGCAATGCTGCTTAAAGGATGATGAA 134
312 GCCCTCGCGCGTGGCTAAGSTGACATGGGCCCAAGGGCGACGCTG 371
135 AACGCTTGTCTTCTTAATCTATGAGCGGGTACCATCTCAAGAGATGAA 194
372 AGAAAGTGGGGCCCAAGCTTACACAGCTGGTGTGTCATCCGCAAGGATG 431
195 TGTGAGATCTTGTGAAACATGGGCAAATGGTGTCTGAACTGGCTTAANACC 254
432 CTGGAGGATCTGCTACGAGATCTGGCCGCGCCTGGCTAACAGGATGAA 491
255 ATGATATGGTGTGAGGAGCAGTCTGCAACAGCTTGTGACACAAASCATGTCAT 314

Db 492 GATGACCTCGCGCTGGTGAAGGACCCAGCGAGGGCCTGGCTGGCCCTAGGGCTGTC 551
Db 315 GAAGGACTAAAGTGTGACAGCAGCTGCTGTTAATCCTGTTGATGAA 374
Db 552 GAGGGCTGCGCAACGTCGCGCCGCGSCAACCGCTGCTGCTCAAACCGGGATGAA 611
Db 375 ACACGACAGAGCTGCTGAGCTGAAAGGAGGATTCGCTAACCTGATGCG 434
Db 612 AAGCCCTGGAGAGGTCACGGACGCCCTGCTCAAGGGGCCAGGGGGACCRAG 671
Db 435 GANGCTTGTCTGGGCTGGCTGAGTCACTACGGCTCTGAAAGTGGAGTATTC 494
Db 672 GAGGAGTGGGCGACCCGAGTGGGGTGGGACGCACTGCGTACATGTC 731
Db 495 TCAGAACTATGGAGCGPTGGGCAACGTTGCTGATTAACATCGAGATCTCGAGGT 554
Db 732 GCGGAGGGATGGACAGGTCAGGGTGGCAGCGGGCTCATACCCCTGAGGATCCACACC 791
Db 555 ATGAAACAGACATGAGTGAAGTGTGAGCTGAGCAGTGCATTGAGCTGGTTAC 614
Db 792 TTGGGTGCGCTGAGCTACCCGGGTTGCGCTGAGCTGCTACATCTCGGG 851
Db 615 TACATGGTCAGACAATGAAATAATGGTGTGAGACCTGTTAAACCCATTATCTTAACT 674
Db 852 TACTCTGACGCCAGGGAGCTCAGGGGGGGCTGGAGGACCCCTAACCTCTG 911
Db 675 ACCGATAAAAGTGTCAACATCAAGCATTTGGCTACTTGAGGAGTCTTAA 734
Db 912 GTACGCTCCAGGGTGTCACTGTCAAGTCTGCTGCGCCCTGCTCGAGGTCATGGA 971
Db 735 ACCACCGTCTACTCTATTGAGTGGCTGAGCTTGGCTACTTGAGGAGTCTTAA 794
Db 972 GCGGTAGCGCNGCTGAGCTATGCCAGGAGCTGAGGCGCTGCTCACCT 1031
Db 795 GCTTGTGACAGATCTGGFACTTCATGTTGCTCAAGGCCAGGTTGT 854
Db 1032 GTGTCACACAGATCCGGGACCTTCAGTCAGTGGTGGCGTCAGGCTCCGGCTGGC 1091
Db 855 GATGCTGTTAGAGTGTGAGCTGAGACATGCTCTGATCTGAGGATACA 914
Db 1092 GACCGCCGCAAGGGATCTGCTCAGGATTTGGCCATCTCTACCGCTGTGTCAGTAC 1151
Db 915 GAGGATCTGAGCTGTGATTAAGATCTACGACGCGCTTGACGAGGTGTCAAG 974
Db 1152 GAGAGGTCGGCTGACCTGGAGACGCCGACCTGGCTGTGCTGAGGACGGCGAAG 121111
Db 975 ATTCAGCTTATAGATGAGCAGCTGAGTAACTGTTGAGGTTCTGGAGTGTGAGGTT 1034
Db 1212 GTGTTGGTCACTGAGGAGACCCATGTCGAGGGCCGTTGACCCAGGCCATC 127111
Db 1035 GCTAACCGTATGCTGAGTAACTGCAATTGAGTAACTGAGACACACTCTGAGCTTGTACGGT 1094
Db 1272 GCGGAGGACTGCGCCAGCTGGCTGAGGAGATGCTGAGGAGCTGGCTGAGCGT 133911
Db 1095 GAAAACTACAGAACGCTTGGCGAAATTAGCTGGGTTGAGCTTAACTGAGTGA 1154
Db 1332 GAGAACTGCTGAGGAGCGCTGGCTGAGCTGGCTGAGCTGGCTGAGCGGT 139111
Db 1155 GCTCCACAGAGCAGTTAAAGAAGTAACACTCGCTGAGGATGCTTAATGCT 121411
Db 1392 GCGCCACCCAGGGCTGACCTCAAGGGCGACCCATGCGCTGCAAT 145111
Db 1332 GAGAACTGCTGAGGAGCGCTGGCTGAGCTGGCTGAGCTGGCTGAGCGGT 139111
Db 1215 ACACGTCAGCGCTGTGAGGAGTCTGCTGTTGGAGACCACTTACGGT 127411
Db 1452 GCGCAAGGGCCGCTGGAGGAGCGCTGGCTGAGGAGCTGGCTGAGCG 151111
Db 1275 ATGAAAGTGTGAGCAGCTGAGGAGCTGCTGAGCTGAGCTGCTGAGCTG 133411
Db 1512 GCCCCGACCTGGTGCAGCTGAGCTGGAGGAGCGCCACATGCTG 157111
Db 1335 CTTCGCTCTAAAGGCGCTGCTGAGCTGAGGAGCTGGCTGAGGAGCTC 139411

Db 1572 AAGGTGCCCTGGAGGCCCGCCGCTGAGCAGATCGCCTCAACTCCGGCTGGAGGCC 1631
 Qy 1395 GTAGTATTGACAGTCAGTGAAACAGCCTSCAGAACAGGTTAATGTCGAAAGGT 1454
 Db 1632 GTGGTGCCGAGAGGGTGCGCAACTGCGCTGCCACGGCTGACCTCGACGGT 1691
 Qy 1455 GAGTGGGTGATGATGATAAACAGGAATCATGGCCATGCGTAAAGTACACCATCAGG 1514
 Db 1692 GTCTAGGAGATCGCTGCTGCGGGCTCTGACCCGGTAGGTGACCCCTTGGGG 1751
 Qy 1515 CTTCAAATCASCCTTGTGAGCTAGCTTTTGACACAGAGACTGTTGCTAAT 1574
 Db 1752 CTGCAGAATGGGGTCACGCCGGCTGTCCTGACCAACGGAGCCCTCGTGGCGAC 1811
 Qy 1575 AACCTGAA 1583
 Db 1812 AACCCGAA 1820

RESULT 14
 US-09-103-840A-2
 Sequence 2, Application US/09103840A
 Patent No. 6204318
 GENERAL INFORMATION:
 APPLICANT: FLEISCHMAN, Robert D.
 APPLICANT: WHITE, Owen R.
 APPLICANT: FRASER, Claire M.
 APPLICANT: VENTER, John C.
 TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
 FILE REFERENCE: 24366-2007.00
 CURRENT FILING DATE: 1998-06-24
 NUMBER OF SEQ ID NOS: 2
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 4403765
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 FEATURE:
 OTHER INFORMATION: CDC 1551
 OTHER INFORMATION: "n" bases at various positions throughout the sequence
 us-09-103-840A-2

Query Match 27.6%; Score 458; DB 4; Length 4403765;
 Best Local Similarity 55.8%; Pred. No. 1.6e-123; Indels 0; Gaps 0;
 Matches 875; Conservative 0; Mismatches 694; Gaps 0;

Qy 15 ATGGCAAGAAGATCAAATTTCAGATGCGGGTGTGCCATGGGGCTT 74
 Db 530048 ATGGCAAGAAGATCAAATTTCAGATGCGGGTGTGCCATGGGGCTT 530107
 Qy 75 ATGTTAGCAGATACCTCAAGTAACCTTGTGCTTAAGGGCGAATGTGCTCTGAA 134
 Db 530108 GCCCTCGGGATGCGGTAAGGGACATGGCTGGCCACGTTCTGCTGAA 530167
 Qy 135 AAAGCTTTGGTCTCCCTTAATCTAATGAGGGGTAACCTTGCAAGAGTGA 194
 Db 530169 ANAAGTGGGGCCCCACAGTCACCAAGATGTCGTCATGCCAAGGATCGA 530227
 Qy 195 TTAGAGATCATTTGAAACATGGGAGCAATGTTGCTGAGTGGCTTCRAAAC 254
 Db 530228 CTGGAGGATCCCTAGGAGATGCCGCGAACCTGGTCAAAGGPGACCAAGAGC 530287
 Qy 255 ATGATATGCTGGTGTGAGGACTACTGCAACATTGACACAGCATGTTCTA 314
 Db 530288 GATGAGCTGGCGGGTGGACGCCAGGAGGCCACCTGCGCCAGGTGTCGC 530347
 Qy 315 GAAGGACTAAAGTCGAGCAGGTGCTATCCAAATGTCGTCGAGGATGAA 374
 Db 530348 GAGGCCCTCGCAACCTCGGGCGCACCCGCTCGTCAACACSGGGATCGA 530407

Qy 375 ACACAAACAGCACAGCTGAGCTGAGGCTGAAGACATTCACCTGATC 434
 Db 530408 AACGGCGTGGAGAAGTCAGTCGGCTCACCGACCCCTGCTCAAGGGGCC 530467
 Qy 435 GAACATATGTCAGTCGCTCGCAGTATCATCGCTGAAAAGTGGAGATATC 494
 Db 530468 GAGAGATGTCGCGACCCAGCTGAGTTCAGCGGGTGGACCTATC 530527
 Qy 495 TCAARAGTATGGACGAGCTGGGCAACGAGTGGGATGAGTACATGAGA 554
 Db 530528 GCGCGGCGATGACAGTGGCGAACAGGGCTATACCGTGGAGTCACAC 530587
 Qy 555 ATGAGAACAGACTGAGTGGTGGAGGCTGAACTTTCACCGTGTACCGTCA 614
 Db 530588 TTGGCGCGAGCTGCTGACCGGGTATCGGTTCACAGGCTACATCGGG 530647
 Qy 615 TACCTGGTACAGAGAAATGGTGTGAGACCTTGAAACCATTAATCTATC 674
 Db 530648 TACCTGCGACCCGAGGGTGTGGAGGACCCCTACMCCTGCTG 530707
 Qy 675 ACGGATAAAAAGTCACACCAACATGAGCATTTGCCACTACTTGGAGTCTAA 734
 Db 530708 GTCACTCTCAAGGTGTCACCTGTCAGGATCTGCTCCCTGCTGAGAAGGTCATGG 530767
 Qy 735 ACCAACCTCCATTCATGAGATGTCGATGTCGAGACATTCACCT 794
 Db 530768 GCGGTAAGCGCTGCTGTATCGCAGGAGCTGGCGAGGCCGCTGACCCCTG 530827
 Qy 795 GTCTTGACAGATGCTGGGGACTCTATGACACATGTCATGTTGCTGTC 854
 Db 530828 GTCTTCACAGACATGGGGACCTCTAGTGGCGCTTCAGGCTCCGGCTGG 530887
 Qy 855 GATGTTGAAAGTACCTCTGACACATGTCATGTTGCTGTC 914
 Db 530888 GACCGCCGAAGGGATGCTGAGATGGCCATCTCACGGGTTGAGGPGATCAGC 530947
 Qy 915 GAGGATCTAGACTGTAATTAAGAGTGTACATGACAGCCCTTGGAGGGTGTG 974
 Db 530948 GACAGGTCGCCCTACCTGGAGAACCCGACCTCTAGGCAAGGCGCCCG 531007
 Qy 975 ATTACACTGTGATAAGATAGCACGATTAATCTGAGGTTGAGGTCAGGATT 1034
 Db 531008 GTCTGGTCACCAAGGACGACACCATCGTCAGGAGGCGGGTGAACCGACCCATC 531067
 Qy 1035 GCTAACCTGTTGCTGAGTAAATGCAATTAGAACACACTCTGACTCTGGCT 1094
 Db 531068 GCGCGAGGAGTGGCCCGACATCGCCAGGAGTCGAGACAGGGCTACGCGT 531127
 Qy 1095 GAAGAACTACAGAACAGCTTGGGAATTAAGTGTGTTGAGCTGAGACTCCGACTACGCGT 531154
 Db 531128 GACAGCTGAGGAGGAGGCGCTGCGCAAGSTGCGCTGCGTGTGCGGTGATCAGGGCT 531187
 Qy 1155 GCTCACAGAGACGCTTAAAGAAATGAAACTCCATGAGATCTCTAATGCT 1214
 Db 531188 GCGCCACCCAGGCGACATCAAGGGCAGACCCGATCGAGGATGCGTCTGCAAT 531247
 Qy 1215 ACAGGCGACCGTTGAGAGGAGTGTCTGGTGGACACGACTTATAGGT 1274
 Db 531248 GCGCAAGGCCGCGCTGGAGGCGATCTCCCGTGGAGGGCTGGAGCG 531307
 Qy 1335 CTGGTCTCTAGAGAGCCCTGAGGAGGCTCCTCCGGTGGAGGGCTGGAGCG 531367
 Db 531368 AACGGCGCTGGAGGCCGCTGAGGAGTCGCTGCGCTGAGGCCGCG 531427
 Qy 1275 ATTGAAACATGAGCTGCTGAGGCTGTCAGTGGCTACCTGGAGTACATGCG 1334
 Db 531308 GCGCCGACCTGGAGGAGCTGACCTCGACAGGCTGCGCCACACCTGCG 531367
 Qy 1395 GTAGTATTGACAGTGAAGACGCTCTGAGGAGTGTGAGCTGAGGATCACAGT 1454
 Db 531428 GAGGGCTGGAGGAGGCGCAACCTCCGCTGCCGCGTCGAGGCG 531487

RESULT 15

Sequence 1, Application US/09103840A
 Patent No. 6291328
 GENERAL INFORMATION
 APPLICANT: FLEISCHMAN, Robert D.
 APPLICANT: WHITE, Owen R.
 APPLICANT: FRAZER, Claire M.
 APPLICANT: VENTER, John C.
 TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
 FILE REFERENCE: 24356-2007-0
 CURRENT APPLICATION NUMBER: US/09/103, 840A
 CURRENT FILING DATE: 1998-06-24
 NUMBER OF SEQ ID NOS: 2
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 1
 LENGTH: 4411529
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 OTHER INFORMATION: H37Rv
 US-09-103-840A-1

Query Match 27.6%; Score 458.6; DB 4; Length 4411529;
 Best Local Similarity 55.8%; Pred. No. 1.6e-123; Mismatches 875; Conservative Matches 875; Indels 0; Gaps 0;

Qy 15 ATGGCAAAAGAACATCANAATTTCACCATGCGATGGCCCTCGGSCCTGGGGGCTGAA 52865
 Db 528606 ATGCCCAAGAACATCANAATTTCACCATGCGATGGCCCTCGGSCCTGGGGGCTGAA 52865
 Qy 75 ATTTAGCAGATTCGGTCAAAGTAGCTACGCTTGCTTAAGGGCAAGTGTCTGAA 134
 Db 528666 GCCTCCGCCATGGGGTAAGGTCATTTGGGCCCAAGGGCAACOTCCUCCINGAA 528725
 Qy 135 AAAGCTTGTCTCCCTAAATCTAAATGACGGGAAACATGCTAAAGAGATGCA 194
 Db 528726 AGAAACTGGGTCGCCAACGATACCAACCGATGCTGGTCATGCCRAGGAGTCGG 52875
 Qy 195 TTRGAGATGATTTGAAACATGGGCAAATGGTGTGAGTGCCTAACCC 254
 Db 528786 CTGGAGGATCCGATGAGAAAGATGGGGCAAGGGTGGTCAAAGAGTAGCCAGAGACC 528845
 Qy 255 ATGATATTCGTTGATGGGACCACTACTGCAACAGTTGACACAAAGCCATGTTCT 314
 Db 528846 GATGAGCTCCGGTGAACACACGCCACGCCAACGGTGGTGGTGG 528905
 Qy 315 GAAGGACTAAAAAATGACAGEGGGCTAACACCAATTGTTACCGCAGGATTAA 374
 Db 528905 GAGGGCTGGCACGGGGGGCACUGCGCAGCTCAACGGCGAGCGAA 528965
 Qy 375 ATGGCAAAAGAACATCANAATTTCACCATGCGATGGCCCTCGGSCCTGGGGGCTGAA 529046
 Db 528966 AGGGCGCTGGAGGTCAACGGGCTGCGGCGAACGGTGGAGACCAAG 529025
 Qy 435 GAGCTTATGCTAGGTGCTGCTGCTGACGATCACATCAGCTGCTGAAAGTGGAGSATATA 494
 Db 529026 GAGCAGATTCGGCCACCGCAGGATTGCGGGTGGACGAGTCATGGTGACCTGATC 529085
 Qy 495 TCTAGAGCTATGGAGGCTGGGGCAACGATGGTGTGATGATCATGAGAATCTCGAGGT 554
 Db 531608 AACCTGAA 1583
 Db 531616 AACCCGGA 531616

Db 529085 GCGGAGCCATGGCACAGTGCGAAGGAGGCGTCATCACGGTGGAGTCACACCC 529145
 Qy 555 ATGGCAAAAGAACATGCTGGTGAAGGATGCAATTGGCGCTGGTACCTGTCMA 614
 Db 529146 TTGGGCTGCACTCGAGCTCACCGAGGGRATGGGGTGCACAGGGCTACATCTGGGG 529205
 Qy 615 TACATGGTACAGACATGAAAGAATGTTGACACCTGAGGACTCTGCGAGCTGGGG 574
 Db 529206 TACTTGCTACGGACCGAGCTGCGTCAAGGACTCTGCGACCTTGCGAGTCTCGCG 529265
 Qy 675 ACGGATARAAGTGCACATCCAGAGAATTGCGACATGTCAGGACTCTGCGAGAAGTCATCGGA 529325
 Qy 735 ACCAACGGCGCATTAATCTTAACTGCGAGTGGTGGTGTGAGACTCCACCCCT 794
 Db 529336 GCGGSTAACCGCTGGTGTGATCATGCGAGGAGCTGCGAGGCGCTGCCCCCT 529385
 Qy 795 GCTTGACAAATGCTGGTGTGACTTCGAAGTGTGGTGTGCTGCAAGGCCAGGATTG 854
 Db 529396 GTGCCACACATCCGCGACCTCTGATCGTGGGGTCAAGGCTGAGCTCCGGTCAAGTGTGAC 529445
 Qy 855 GATCCTGTAAGACTGTGGTGAAGCATGCTATCTGACAGTGTGACAGTGTGATTACA 914
 Db 529446 GACGCCCGAACGCTGTGCTGAGGATATGCCATCTCACCGTGGTCAAGTGTGAC 529505
 Qy 915 GAGGATCCTGGACTGAAATTAAGATGCTACATGACGACGCCCTGGACAGCTGGCTAG 974
 Db 529506 GAAGAGTGGCTGAGCTGGTGGAGAAGCGACCTGRCGCTGCTAGGCAAGCCGCAAG 529565
 Qy 975 ATTACACTGAAAGATGCAAGTGTGGTGAAGTGTGGAGTGGAGTTCAGAGCTT 1034
 Db 529566 GTCGTGGTCAACCAAGGACGAGACCACTGTCAGGGCGCCGTGACACCGAGCCATC 529625
 Qy 1035 GCTAACCTTATGACTGATTAATGCAATTAGAACACAAACACTTGACTTGACGCT 1094
 Db 529626 GCGCACCGTGGCCAGTCGCCAGTGGAGATGAGACAGCAGCTGACTGACCGT 529685
 Qy 1095 GAAACACTACAGAACTGGTGTGCGAAATGAGACTGCTGAGTCAAGTAGGAA 1154
 Db 529686 GAGAGCTGCGAGGAGCGCTGCCACGTCAGGAGCCAAAGCACCGCATCCAGGATGGTGG 529745
 Qy 1155 GCTCCAAAGAGACAGCTTAAGAAAGATGAACTGCTGAGTCAAGTAAATGCT 1214
 Db 529746 GCCGCCACCGAGGTGCAACTCAGGAGCCAAAGCACCGCATCCAGGATGGTGG 529805
 Qy 1215 ACAGTGCAGCGTGTGAGAAGGATGCTGCTGGTGTGGAGACAGCACTTATACGGT 1274
 Db 529806 GCCBAGGGCGCCCTGGAGGAGCGCTGCGGGGGGGTGTGCGCTGTCAGCG 529865
 Qy 1275 ATGAAACAGTGGAGCTGCTTGAGGTGGCGGAGTGCCTACTGACCTAACATGTC 1334
 Db 529866 GCCCAGACCTGGAGGAGCTGGAGGCTGAGGCTGAGGGAGCGAGGCCAACATGTC 529925
 Qy 1335 CTGGCTCTGAGAGACCTGCTGAGGAGCTGCGGGGGGGGGGGGGGGGGGGGG 1334
 Db 529926 AAGCTGGCGCCGGCCCTGGAGGAGCGCTGCGGGGGGGGGGGGGGGGGGGGG 529985
 Qy 1395 GTAGCTTATGCAAGTGTAAACACGCGCTGCTGAGGAGACGAGTTAATGTCAGAGT 1404
 Db 529986 GTGCTGGCGCCGGAGGGCGCAACTGCGCTGAGGAGCTGAGGCTGAGCGGG 530045
 Qy 1455 GAGGGGTGTGATGATGATGAAACGAGATCTGACCTGCGTCAAGTACGACGTCAGCG 1514
 Db 530046 GTCHACGGGGATCTGCTGCGCCGGCTGCTGAGGCTGAGGCTGAGGCTGCG 530105
 Qy 1515 CTGCAAATGCACTGCTGCTGAGGAGCTGAGGAGCTGAGGAGCTGAGGCTGAGGCTG 1514
 Db 530106 CTGAGGATGGGGTCTCATGCGGGGCTGTCGACCCGAGCCGGCTGCG 530165
 Qy 1575 AACCTGAA 1583
 Db 530166 AACCCGGA 530174

Wed Apr 16 08:05:36 2003

us-09-001-737-7.rni

Page 17

Search completed: April 15, 2003, 05:53:58
Job time : 537.45 secs